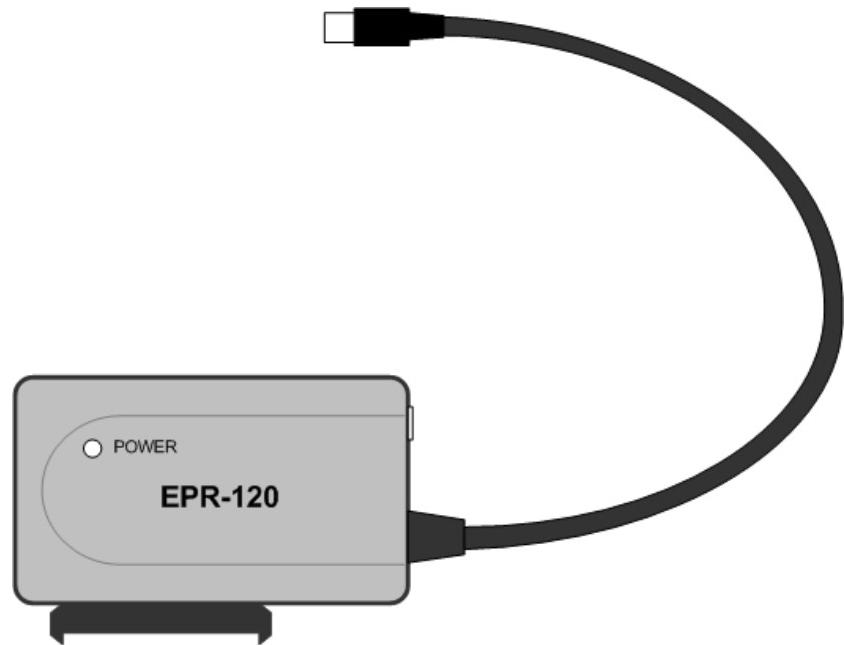




User's Manual



EPR-120

USB - Hard Disk Reader for EverFocus Digital Recorder

WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



WARNING: This equipment has been tested and found to comply with the limits for a Class "A" digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the users will be required to correct the interference at their own expense.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.



ATTENTION! This is a class A product which may cause radio interference in a domestic environment; in this case, the user may be urged to take adequate measures.



Your EverFocus product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment should be disposed of separately from your household waste at their end-of-life.

Please dispose of this equipment at your local community waste collection / recycling centre. In the European Union, there are separate collection systems for used electrical and electronic products.

Please help us to conserve the environment we live in!



This product is RoHS compliant.

The information in this manual was current when published. The manufacturer reserves the right to revise and improve its products. All specifications are therefore subject to change without notice.

Before installing and using this unit, please read this manual carefully. Please make sure to keep it handy for later reference.

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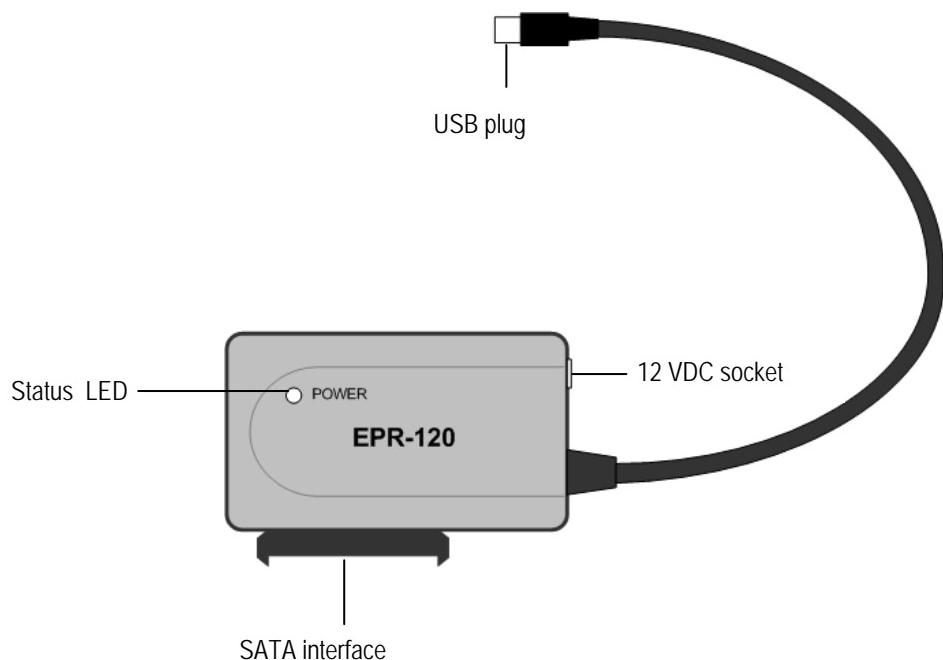
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1. Understand DVR Reader

1.1 Package Content

The package includes EPR120 HDD Reader, power adapter and CD with application software and documentation.

1.2 Connectors



1.3 Minimum System Requirements

CPU	Intel® Pentium® 4, 3GHz processor or faster
Memory	512MB RAM
HDD	100MB hard disk space; additional disk space for video capture
USB	USB 2.0 or USB 3.0 port
Peripherals	Windows-compatible display with at least 1024x768 resolution Windows-compatible mouse or pointing device Windows-compatible sound card Windows-compatible CD-ROM drive
OS	Microsoft® Windows® 2000/XP™/7

1.4 Specifications

Supported DVR Models	EMV400
Lights	1 LED for power / connection status
Power switch	Power ON/OFF
USB interface	USB 3.0 (USB 2.0 compatible), connector cable with USB plug type A
Power	12V DC, 2A max via power adapter 110/230 VAC, 5,5mm socket

Software Functions

Operations	1/4/9/16 multi-channel playback Playback forward/backward at 0.1~16x speed Audio playback for 1~60FPS recordings (MPEG4 4CH/8CH/16CH will not support audio function) Pause Step forward/backward Jump to beginning or end of a segment
Search	Search video by segment list, date/time and alarm list Slide bar to move video pointer Display current video date/time
Archive	Save still image to BMP or JPEG file Print still image Save video to Motion JPEG AVI file up to 4GB Save disk raw data into proprietary file *: Length limitation depends on various PC hardware, disk and OS configurations.

Operational Environment

Temperature	0 °C ~ 50°C (32 °F ~ 122°F)
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Dimensions & Weight

Dimensions (W/H/D)	78 x 60 x 16 mm
Weight	200 g

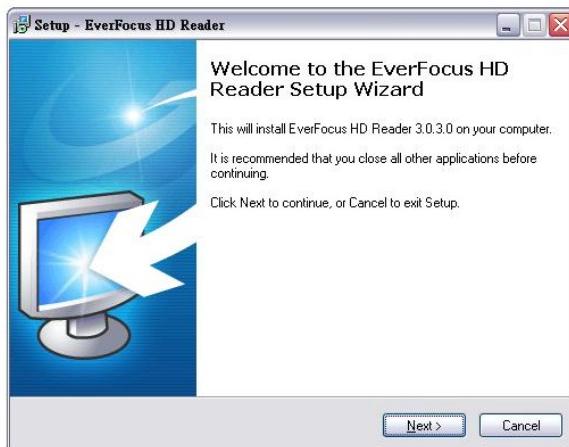
2. Setup DVR Reader

Note: Please carefully follow these instructions to insert or remove the HDD carrier to avoid damages to the DVR Reader or hard disk.

2.1 Install DVR Reader software

Please make sure, that the PC fulfills the minimum system requirements!

1. Turn on your PC
2. Insert DVR Reader CD-ROM
3. Run the file setup.exe on CD, if the program does not automatically run

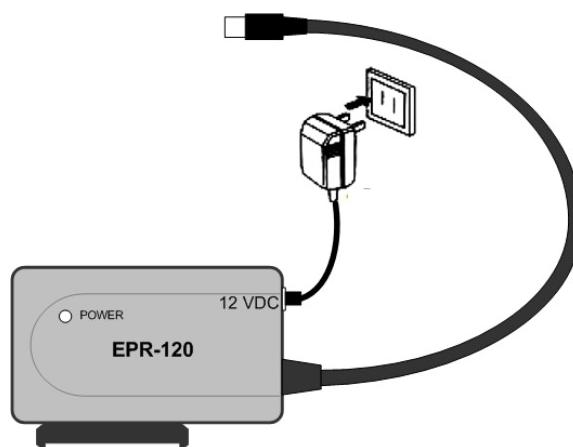


4. Click "Next" and follow the instructions to install DVR Reader software

2.2 Connect DVR Reader to PC

Step 1: Connect the USB cable to DVR Reader and your PC.

Step 2: Connect power adapter's cable to DVR Reader. Keep the power switch in OFF position. Connect the power adapter to mains voltage.

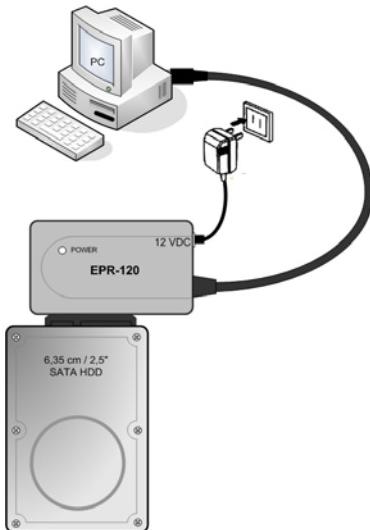


2.3 Connect HDD to EPR120

1. Take out HDD carrier from DVR (Please refer to DVR user's manual).
2. Connect the HDD to the SATA interface of the HDD reader.



3. Turn on DVR Reader from power switch. The LED at EPR120 lights red.
4. Connect the USB plug to a free USB 2.0/3.0 port of the PC.



5. Wait until the Remove/Eject icon shows up in System Tray. The LED at EPR120 lights purple.



2.4 Remove HDD carrier from DVR Reader

1. Exit from DVR Reader application.
2. Click on Remove/Eject icon in System Tray to stop the USB Mass Storage Device.
3. Turn off the power of the EPR120.
4. Remove HDD carrier from EPR120.

3. Using DVR Reader Software

3.1 Start DVR Reader Software

Start DVR HD Reader software from desktop shortcut or from Start Menu *Start -> Program Files -> EverFocus HD Reader > EverFocus HD Reader*

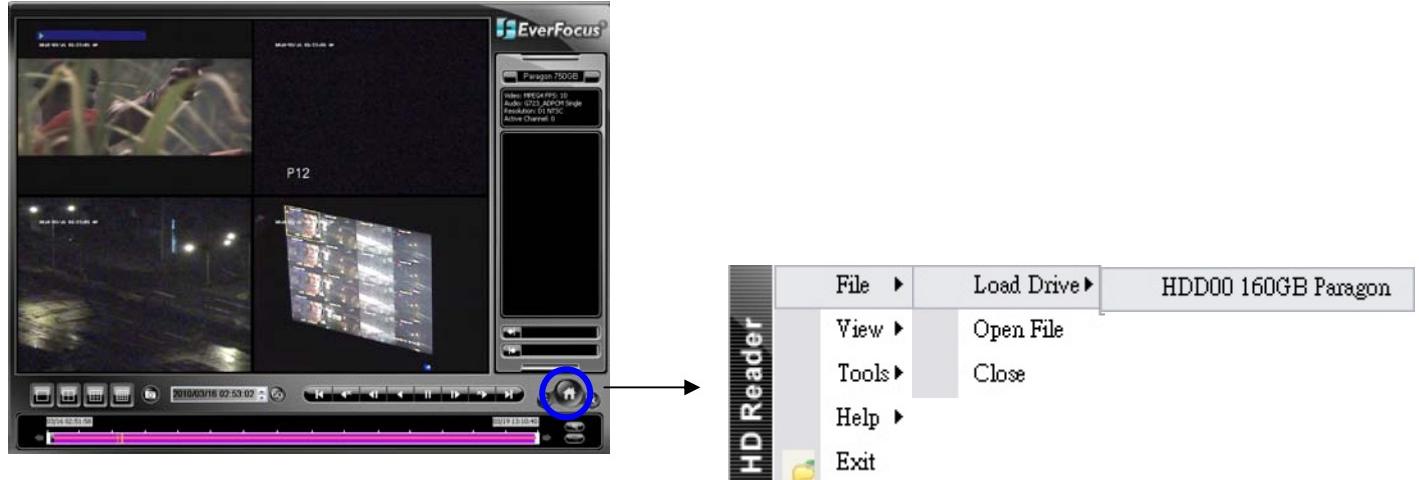
3.2 Understand User Interfaces



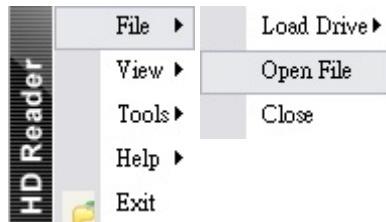
3.3 Basic Operations

3.3.1 Open DVR HDD/File

1. Press "Menu" button and select "File", then "Load Drive". The PC will automatically detect all the DVR models available. Choose the proper DVR model to be viewed. Or, select "Open File" to load a disk image file (*.edr). Note that HDD/File Menu only shows the HDD's, which are recognized by DVR Reader software.

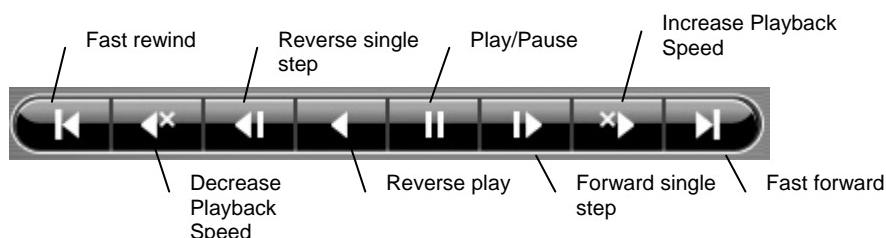


2. Please wait while DVR Reader is reading disk information. "Status Bar" shows the progress of reading disk process.
3. To load a disk image file (*.edr / *.avr), select "Open File") and browse file location.



3.3.2 Playback Controls

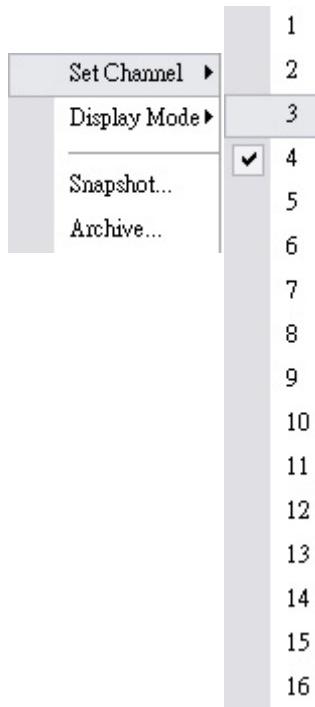
1. Click on *Playback Control Buttons* to Playback, Pause, reverse play, forward/reverse single step, fast forward/rewind and increase/decrease playback speed.



Note: Playback speed range is 0.1~16x and they are approximate speeds.

3.3.3 Set Playback Channel

1. Right click on *Video Window* where playback channel is to be set.
2. In *Function Menu*, click on *Set Channel* to choose desired playback channel.



Note: One channel can only be shown in one window. If two windows are set to playback the same channel, only the last one set will show video correctly.

3.3.4 Select Display Mode

1. Right click on *Video Window* to bring up *Function Menu*.
2. Click on *Display Mode* and choose desired display mode.



3.4 Search Video

3.4.1 Search by Date/Time

1. Set desired Date/Time on *Date/Time search drop-down box*. Click on the value to be adjusted first, then click
2. Click on *GO* button



3.4.2 Search by Video Slide Bar

1. Grab *Video Slide Bar* cursor to move to desired position.



2. Click to magnify the time frame. Click to reduce the time frame. Event types are represented by different colors. Please refer to the following chart for the meaning of events.

Color	Event Type
Gray	No event
Blue	Video Loss
Orange	Motion
Red	Alarm
Yellow	Other event

Note: When searching a video, if file size of the disk is large, the searching action will take time and has no response, nor any notification will be given.

3.5 Snapshot and Archive

3.5.1 Archive Video from Video Window

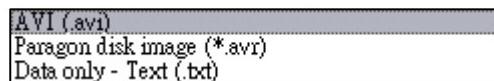
DVR Reader can archive video into AVI file or disk image. However, archive functions are not designed to save long time video. Archive to AVI file should always be limited to the minimum time range. Archive AVI file over 4GB is not supported.

1. To set archive in/out points, click on *Archive In* button or *Archive Out* button when video playback at the point you wish to set.

Note: for *Disk Image (.edr)* format, the actual *Archive In* time will be equal or earlier than specified time, and *Archive Out* time will be equal or later.



2. Right click on *Video Window* to bring up *Function Menu*.
3. Click on *Archive* to bring up *Save As* dialog box.
4. Type in file name.
5. Choose file type.



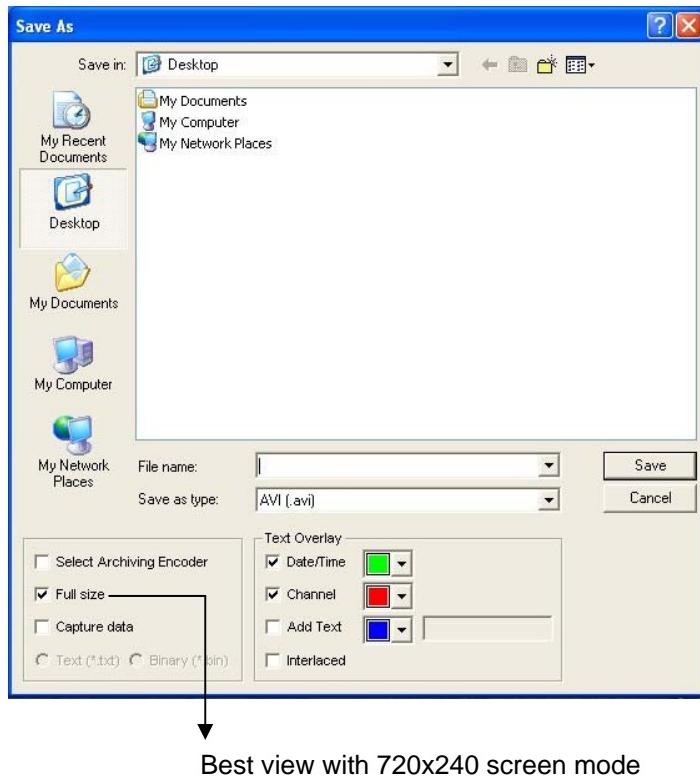
Type	Video	Data	
Motion JPEG Full Size (.avi)	√	*	Stretched and recompressed single channel video. Slow.
Disk Image (.avr)	√	√	Complete multi-channel archive. Fast. Can only be read by DVR Reader software
Data only - Text (.txt)		√	Data saved in text mode (reserved)

*Optional to save to a separate file

Table 3.1 Archive Type Comparison

(Please refer to **Appendix A** for detail Recommended Download (Free Software to play the enlarged avi video))

6. Check “*Full Size*” checkbox if full size video is desired.



Best view with 720x240 screen mode

7. Check “*Capture Data*” and choose *Text* or *Binary* if data capture is desired.
8. *Select Archiving Encoder*.
9. Text Overlay: select the color of Date/Time and Channel that will be shown on the archived video.
10. Check “*Add Text*” if you wish to add text, you can select the text color as well.
11. Select “*Interlaced*” for the text interlaced.
12. Click “*Save*” to start archiving. *Archive Encoder Selection* dialog box will show up. Please choose a video compressor available for your computer.

3.5.2 Archive Video from Menu

1. Click on the desired channel first.
2. Press "Menu" button and select "Tool".
3. Click on "Archive" and browse the destination folder where the image will be archived to.
4. Type in file name.
5. Choose file type: .avi , .avr or .txt.

Note: During Archive process, do not press "Cancel" button, as it may cause crash to the program.

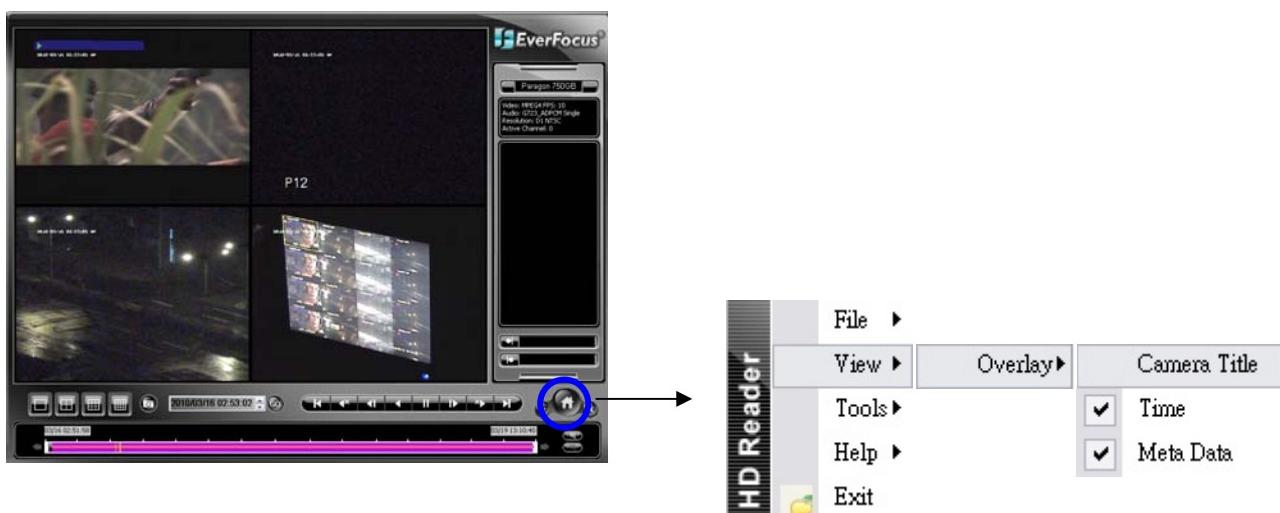
3.5.3 Snapshot Image

3 methods are available to snapshot an image:

- 1.1 Click on the desired channel first.
- 1.2 Right click on *Video Window* to bring up *Function Menu*.
- 1.3 Click on *Snapshot* and browse the destination folder where the snapshot image will be saved to.
- 2.1 Click on the desired channel first
- 2.2 Press "Menu" button and select "Tool".
- 2.3 Click on "Snapshot" and browse the destination folder where the snapshot image will be saved to.
- 3.1 Click on the desired channel first.
- 3.2 Click on "Snapshot" button. 
- 3.3 Browse the destination folder where the snapshot image will be saved to.

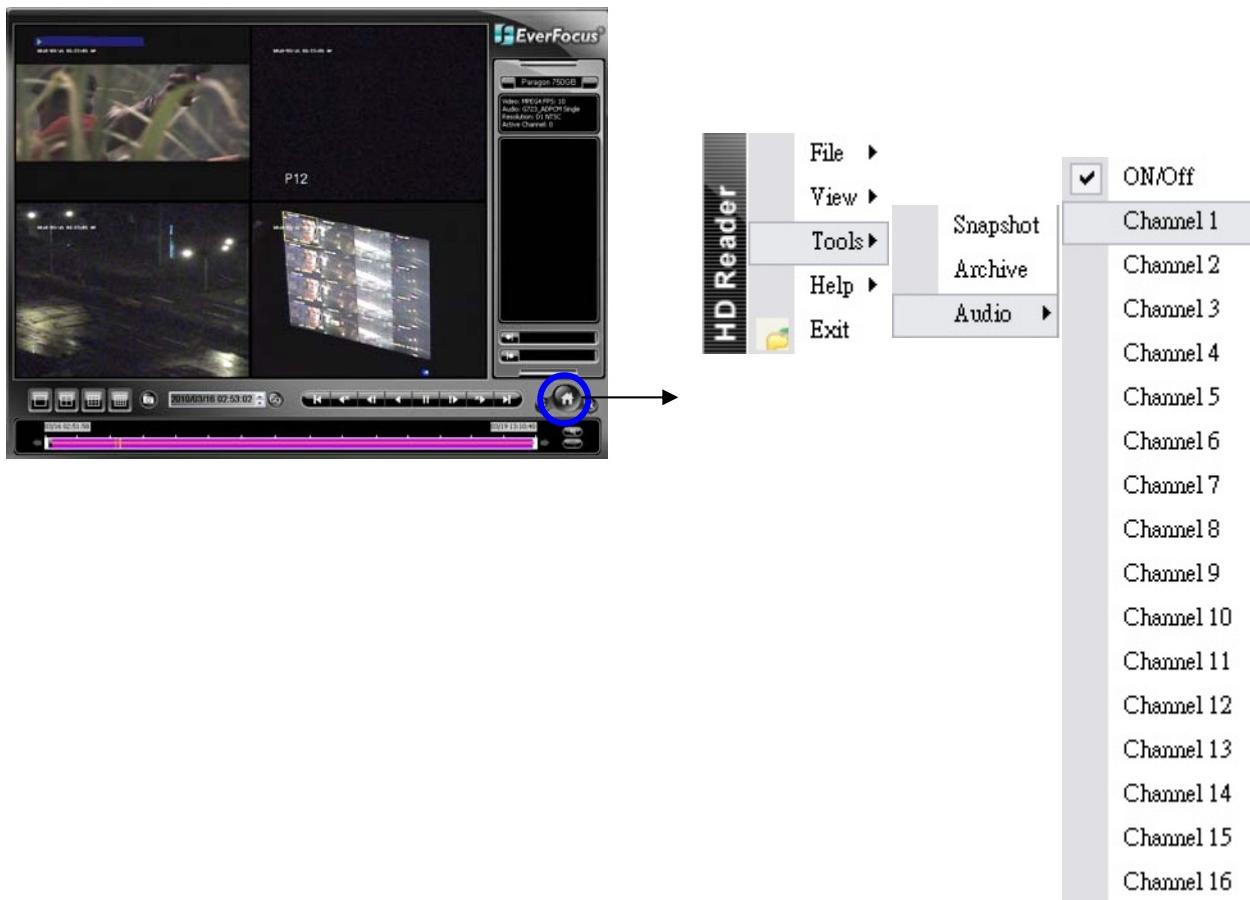
3.6 View

1. Press "Menu" button and select "View", then "Overlay". Select the item to be displayed from camera title, time and meta data. Click on the item to switch between show and hide mode.



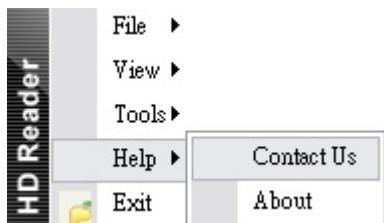
3.7 Audio

Press "Menu" button and select "Tools", then "Audio". Click on "ON/OFF" to switch between audio on and audio off mode. Click on the channel number for the camera to be set.



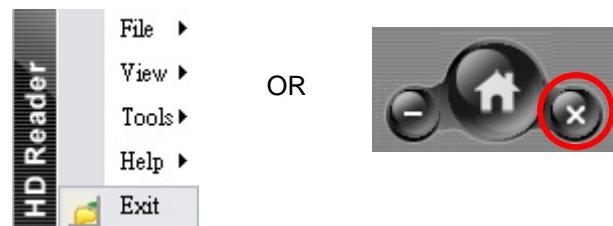
3.8 Help

If you need to get any assistance, press "Menu" button and select "Help", then "Contact Us" to get help information.



3.9 Exit

To exit from EPR120, press “Menu” button and select “Exit”. Or, press the “X” button located beside “Menu” button.



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